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MONTANA OIL AND GAS STATISTICAL BULLETIN

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OIL AND GAS CONSERVATION COMMISSION
SAVINGS BLDG.
HELENA, MONTANA

Vol. XVIII, No. 9 — September, 1970

Production of crude oil and condensate from the oil and gas areas of Montana for the month of September, 1970 averaged 101,846 barrels daily, an increase of 828 barrels from the average August, 1970 production of 101,018.

The nine refineries in the state processed 137,534 barrels of crude oil daily for the month of September, 1970, an increase of 8,490 barrels from the 129,044 barrels processed daily during the month of August, 1970.

During September 57 wells were completed, 7 oil, 4 gas and 46 dry holes.

During September the commission issued 40 permits to drill new wells, an increase of 13 from the 27 permits issued during August.

SUMMARY OF CRUDE OIL PRODUCTION REFINING, STORAGE, ETC., IN MONTANA MONTH OF SEPTEMBER, 1970

IN STORAGE SEPTEMBER 1st	
By Producers	342,658
By Transporters	1,227,214
By Refiners	783,452
TOTAL STORAGE	2,353,324
Produced in Montana During Month	3,055,378
Imported During Month	3,101,253
TOTALS	8,509,955
DISPOSITION:	
Refined in Montana	4,126,029
Exported	1,989,154
Used for Fuel or Lost	7,682
TOTAL	6,122,865
IN STORAGE SEPTEMBER 30th	
By Producers	334,184
By Transporters	1,244,899
By Refiners	808,007
TOTAL STORAGE	2,387,090

NATURAL GAS WITHDRAWALS IN MONTANA

Month of September, 1970

Field	M. Cu. Ft.
Bell Creek	485,641
Big Coulee	55,576
Blackjack	70,251
Bowdoin	83,788
Bowes	31,587
Cabin Creek	101,854
Cabin Creek	63,012
Cut Bank (Including Reagan)	566,206
Devon	0
Dry Creek	43,990
Elk Basin	100,507
Flat Coulee	9,257
Gold Butte	4,356
Grandview	20,818
Hardin	3,354
Keith Block	90,191
Kevin Sunburst	37,304
Lake Basin	75,561
Middle Butte	4,507
Mt. Lilly	8,952
Pine	57,003
Plevna	5,820
Squaw Coulee	58,475
Tiger Ridge	39,771
Utopia	68,074
Whitlash	131,374
Miscellaneous	226,201
TOTAL	2,443,430

Total withdrawals for September 1969 were 2,745,726.

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PRODUCERS REPORT—MONTH OF SEPTEMBER, 1970

Leases	Field	No. of Wells	Storage 1st of Month	Oil Produced	Oil Shipped By		Used or Lost	Storage End of Month
					Pipeline	Truck		
3	Ash Creek	3	145	1,984	.....	2,020	.....	109
1	Bainville	1	3,132	4,364	.....	4,578	.....	2,918
	Bannatyne		573	.....	.....	.....	.....	573
	Bascom		165	.....	.....	.....	.....	165
5	Bear's Den	6	1,747	1,262	415	1,034	.....	1,560
62	Bell Creek	367	45,162	547,849	546,329	.....	1,359	45,323
	Benrud		120	.....	.....	.....	.....	120
2	Benrud East	2	1,446	14,229	14,193	.....	.....	1,482
1	Benrud Northeast	1	480	2,750	2,750	.....	.....	480
1	Berthelote	1	281	114	128	.....	.....	267
5	Big Wall	12	1,662	10,550	10,550	.....	.....	1,662
5	Blackfoot	6	1,271	2,826	2,826	.....	.....	1,271
4	Border	4	466	908	.....	968	.....	406
1	Bowes	55	4,562	10,592	10,307	.....	.....	4,847
1	Bradley	1	201	635	635	.....	.....	201
3	Brady	3	296	575	547	.....	.....	324
4	Brorson-Madison	4	1,749	5,009	.....	4,730	.....	2,028
6	Brorson-Red River	6	3,973	19,204	.....	19,002	200	3,975
3	Brorson-Red River South	3	2,215	10,574	.....	11,118	.....	1,671
5	Brush Lake	5	962	19,567	20,140	.....	.....	389
2	Cabin Creek	97	.....	313,785	313,785	.....	.....	.....
13	Cat Creek	62	3,512	13,920	13,927	1,455	.....	2,050
1	Clark's Fork	1	140	.....	.....	.....	.....	140
1	Clark's Fork South	1	536	578	802	.....	.....	312
2	Conrad South	2	173	826	826	.....	.....	173
1	Cow Creek	1	47	4,521	.....	4,069	.....	499
1	Culbertson	1	416	2,762	.....	2,769	.....	409
2	Cupton	2	2,286	2,441	.....	2,520	.....	2,207
141	Cut Bank	872	54,594	473,932	474,922	.....	79	53,525
	Dean Dome		65	.....	.....	.....	.....	65
2	Deer Creek	2	746	2,150	2,150	.....	.....	746
1	Delphia	1	315	212	.....	207	.....	320
	Devil's Basin		671	.....	.....	.....	.....	671
3	Dwyer	14	4,847	20,764	19,903	.....	.....	5,708
3	Elk Basin	53	1,577	169,437	170,049	.....	.....	965
5	Elk Basin Northwest	13	8,937	9,887	10,563	.....	.....	8,262
5	Fairview	10	8,435	49,030	51,107	.....	.....	6,358
2	Fertile Prairie	2	497	1,460	.....	1,364	.....	593
9	Flat Coulee	28	5,018	8,711	8,518	.....	.....	5,211
45	Flat Lake	65	6,162	69,007	68,387	.....	.....	6,782
4	Flat Lake South	4	913	5,451	4,905	.....	.....	1,459
1	Frannie	1	.....	600	600	.....	.....	.....
14	Fred & George Creek	37	1,614	41,696	41,756	.....	.....	1,554
	Gage		129	.....	.....	.....	.....	129
2	Gas City	16	7,465	24,477	20,447	3,798	.....	7,697
2	Girard	2	938	6,147	.....	6,389	17	679
11	Glendive	15	2,478	29,255	25,742	3,518	.....	2,473
28	Goose Lake	34	6,314	42,669	41,837	.....	296	6,850
9	Graben Coulee	19	4,506	4,458	1,557	3,001	.....	4,406
1	Gypsy Basin	1	749	524	.....	524	.....	749
	Hardscrabble Creek		58	.....	.....	.....	.....	58
2	Hay Creek	2	450	13,492	13,493	.....	.....	449
7	Hiawatha	7	4,522	9,543	10,629	.....	.....	3,436
1	Hibbard	1	500	256	.....	420	.....	336
1	Injun Creek	1	474	456	.....	.....	.....	930
6	Ivanhoe	11	3,047	6,892	7,157	477	60	2,245
7	Keg Coulee	17	4,667	15,516	16,331	.....	.....	3,852
2	Keg Coulee North	2	304	694	443	.....	.....	555
1	Kelley	5	1,006	3,772	3,673	.....	.....	1,105
80	Kevin Sunburst	276	9,610	31,209	29,053	2,012	56	9,698
8	Laird Creek	10	485	4,723	.....	4,629	5	574
2	Leary	2	1,165	1,217	.....	1,178	5	1,199
1	Little Beaver	23	.....	28,729	28,729	.....	.....	.....
2	Little Beaver East*	13	2,248	14,036	13,724	.....	.....	2,560
2	Lodge Grass	2	1,310	1,425	.....	1,936	.....	799
3	Lookout Butte (Coral Creek)	33	796	80,598	80,032	.....	.....	1,362
	Mackay Dome		1,134	.....	.....	.....	.....	1,134
2	Mason Lake	2	467	584	665	.....	.....	386
3	Melstone	4	1,322	1,878	1,349	.....	.....	1,851
1	Mineral Bench	1	453	433	428	.....	.....	458
1	Miner's Coulee	1	107	256	.....	256	.....	107
10	Monarch	13	3,858	16,016	11,594	2,494	.....	5,786
3	Mosser	3	.....	571	.....	571	.....	.....
6	Outlook	9	6,028	15,285	15,776	.....	.....	5,537
1	Outlook South	1	1,155	1,395	1,592	.....	.....	958
2	Outlook West	2	1,015	4,450	4,062	.....	.....	1,403
1	Pennel-Lookout Butte	110	.....	128,081	128,081	.....	.....	.....
4	Pine	115	17,519	270,150	270,467	.....	.....	17,202
1	Pole Creek	1	178	204	.....	304	.....	78
69	Pondera	277	6,136	26,663	25,758	.....	.....	7,041
7	Poplar	67	9,567	54,399	55,022	.....	104	8,840
3	Poplar Northwest	3	1,389	779	481	.....	.....	1,687
1	Prairie Elk	1	1,668	971	1,091	.....	.....	1,548
5	Pritchard Creek	5	167	2,050	2,050	.....	.....	167
4	Ragged Point	12	2,195	6,726	5,845	.....	.....	3,076
2	Rattlesnake Coulee	2	754	603	798	.....	.....	559
2	Reagan	46	541	20,268	20,482	.....	.....	327
1	Red Creek	21	.....	17,550	17,550	.....	.....	.....
1	Red Fox	1	284	1,250	1,250	.....	.....	284
1	Redstone	1	368	3,163	2,930	.....	.....	601
1	Repeat	1	140	1,004	.....	924	.....	220
5	Reserve	5	.....	10,677	10,677	.....	.....	.....
1	Richey	1	378	670	645	.....	.....	403
1	Richey Southwest	6	603	3,058	.....	3,616	.....	45
	Rough Creek		266	.....	.....	.....	.....	266
1	Rush Mountain	1	704	3,119	3,373	.....	.....	450
5	Sand Creek	8	3,891	6,366	8,054	.....	.....	2,203
1	Shotgun Creek	1	394	414	.....	660	.....	148
1	Sidney	1	600	609	.....	809	.....	400
1	Snyder	4	343	915	.....	357	.....	901
6	Soap Creek	17	2,401	3,546	.....	3,153	.....	2,794
1	Spring Lake	2	2,440	2,817	.....	4,294	.....	963
1	Stensvad	6	2,346	24,232	24,389	.....	.....	2,189
12	Sumatra	81	15,745	47,217	48,976	.....	.....	13,986
5	Tule Creek	6	2,505	30,131	.....	29,956	.....	2,680
2	Tule Creek East	2	1,020	9,500	.....	9,500	.....	1,020
2	Tule Creek South	3	684	3,529	.....	3,061	23	1,129
2	Vida	2	843	1,148	.....	1,300	.....	691
3	Volt	4	2,426	12,500	12,500	.....	.....	2,426
2	Weed Creek	3	372	3,145	3,128	.....	2	387
3	Weldon	7	1,426	24,440	24,425	.....	.....	1,441
1	West Butte	1	.....	2,259	.....	2,259	.....	.....
18	Whitlash	45	7,235	12,297	11,963	.....	.....	7,569
1	Whitlash West	1	664	200	200	.....	.....	664
	Wibaux		132	.....	.....	.....	.....	132
2	Wills Creek South	2	.....	3,394	3,394	.....	.....	.....
6	Wolf Springs	8	3,529	3,876	4,647	.....	.....	2,758
2	Woodrow	2	314	1,200	1,200	.....	.....	314
3	Wright Creek	5	2,133	3,656	4,388	.....	.....	1,401
1	Wildcat, Blaine Cty	1	311	116	.....	333	.....	94
	Wildcat, Carbon Cty		310	.....	.....	.....	.....	310
1	Wildcat, Daniels Cty	1	477	4,000	.....	4,000	.....	477
1	Wildcat, Fallon Cty	3	1,208	13,805	.....	13,911	.....	1,101
2	Wildcat, Glacier Cty	5	802	904	868	.....	.....	838
1	Wildcat, Liberty Cty	1	305	57	.....	.....	.....	362
3	Wildcat, Musselshell Cty	3	1,262	11,118	.....	11,836	.....	544
7	Wildcat, Richland Cty	7	2,814	63,869	.....	63,075	.....	3,608
1	Wildcat, Roosevelt Cty	1	.....	5,000	.....	5,000	.....	.....
1	Wildcat, Sheridan Cty	1	.....	1,351	.....	1,032	.....	319
1	Wildcat, Toole Cty	1	.....	1,264	.....	1,264	.....	.....
787	Total	3,188	342,658	3,055,378	2,813,965	247,681	2,206	334,184

Total Oil Produced & Shipped From Leases	Bbls. Produced	Daily Average	Bbls Shipped	Daily Average
Year, 1969	43,954,112	120,422	44,000,342	120,549
1st Quarter, 1970	9,744,920	108,306	9,724,779	108,062
2nd Quarter, 1970	9,446,320	103,806	9,422,315	103,542
July, 1970	3,152,633	101,698	3,176,552	102,469
August, 1970	3,131,565	101,018	3,130,080	100,970
September, 1970	3,055,378	101,846	3,813,965	93,799

Oil In Storage	In Producers Field Tank	In Transporters Storage	In Refiners Storage‡	Total oil In Storage‡
December, 1969	351,210	1,237,355	731,177	2,319,742
March, 1970	362,487	1,382,147	387,559	2,132,193
June, 1970	374,566	1,704,027	1,084,703	3,163,296
July, 1970	347,605	1,514,527	1,024,001	2,886,133
August, 1970	342,658	1,227,214	783,452	2,353,324
September, 1970	334,184	1,244,899	808,007	2,387,090

*Montana Oil Only. ‡Includes Wyoming Oil.

TRANSPORTERS REPORT—MONTH OF SEPTEMBER, 1970

	Storage First of Month	OIL RECEIVED BY			Loss or (Gain)	OIL SHIPPED TO			Storage End of Month
		Pipeline	Truck	Connecting Carrier		Montana	Other States	Connecting Carrier	
ASH CREEK—Truck			2,020				2,020		
BAINVILLE—									
Rock Island Oil & Ref. Co.			4,578				4,578		
BEAR'S DEN—Truck			1,034				1,034		
BELL CREEK—Pipelines	71,588	545,270					456,279	90,050	70,529
BIG WALL—									
Continental Pipeline Co.		10,550				10,550			
BLACKFOOT—									
Camerland Cardinal Corp.		2,826						2,826	
BORDER—Permian Corp.			968					968	
BOWES—Texaco Inc.		10,307				10,307			
BRORSON-MADISON—									
Rock Island Oil & Ref.			4,730					4,730	
BRORSON-RED RIVER & BRORSON-RED RIVER SOUTH—									
Rock Island Oil & Ref. Co.			30,120					30,120	
BRUSH LAKE—Portal Pipeline Co		20,140					20,140		
CABIN CREEK & OTHERS*									
Butte Pipeline Co.	315,228	759,808	21,763	625,647	110		1,386,825		355,511
Shell Pipeline Co.	5,832	273,194			47			275,873	3,106
	321,060	1,033,002	21,763	625,647	157		1,386,825	275,873	338,617
CAT CREEK—									
Continental Pipeline Co.		13,927				13,927			
Truck			1,455			1,455			
		13,927	1,455			15,382			
CLARK'S FORK SOUTH—Truck		802					802		
COW CREEK—West. Crude Oil, Inc.			4,069				4,069		
CULBERTSON—Spruce Oil Co.			2,769					2,769	
CUT BANK—									
Continental Pipeline Co.			10,929	553,429				564,358	
Phillips Petroleum Co.	61,638	144,298		28,179	3,319	139,538			91,258
Texas Pipeline Co.	22,310	69,364		65,765	49			139,844	17,546
Union Oil Co.	93,635	75,733		36,392	234	128,322			77,204
Western Oil Trans. Co.		70,391						70,391	
Western Oil Trans. (Moulton)		80,649						80,649	
	177,583	440,435	10,929	683,765	3,602	267,860		855,242	186,008
DELPHIA—Truck			207			207			
DWYER—Portal Pipeline Co.		19,860					19,860		
ELK BASIN & ELK BASIN NORTHWEST—									
Marathon Pipeline Co.		179,388				179,388			
FAIRVIEW—Fairview Pipeline Co.		51,107					51,107		
FLAT COULEE—									
Camerland Cardinal Corp.		7,862				6,000		1,862	
FLAT LAKE & FLAT LAKE SOUTH—									
Portal Pipeline Co.		70,236					70,236		
FRANNIE—Interstate Pipeline Co.		600					600		
FRED & GEORGE CREEK—									
Camerland Cardinal Corp.	12,589	38,144						35,853	14,880
GIRARD—									
Rock Island Oil & Ref. Co.			6,389				6,389		
GLENDIVE, DEER CREEK, WOODROW & SAND CREEK—									
Texas Pipeline Co.	7,624	28,291			(1,004)			29,537	7,382
GOOSE LAKE—									
Portal Pipeline Co.		37,861					37,861		
HAY CREEK—									
Fairview Pipeline Co.		13,493					13,493		
HIAWATHA—									
Continental Pipeline Co.		10,629					10,629		
HIBBARD—Truck			420			420			
IVANHOE—									
Continental Pipeline Co.		7,157				7,157			
KEG COULEE & KEG COULEE NORTH—									
Continental Pipeline Co.		16,750				15,372	1,378		
KELLEY—									
Continental Pipeline Co.		3,673				3,673			
KEVIN SUNBURST—									
Big West Oil Co.		67,919			426	64,142			3,351
Homestake Oil & Gas Co.	2,061	1,680				1,224			2,517
Texas Pipeline Co.	6,805	9,354		4,530	25			13,510	7,154
	8,866	78,953		4,530	451	65,366		13,510	13,022
LEARY—Permian Corp.			1,178				1,178		
LODGE GRASS—Permian Corp.			1,936			1,936			
MASON LAKE—									
Continental Pipeline Co.		665				665			
MELSTONE—									
Continental Pipeline Co.		1,349				1,349			
MOSSER—Truck			571				571		
OUTLOOK, OUTLOOK SOUTH & OUTLOOK WEST—									
Portal Pipeline Co.		20,740					20,740		
POLE CREEK—Truck			304				304		
PONDERA—Phillips Petr. Co.	43,447	27,559			730	26,265			44,011
POPLAR, BENRUD, BENRUD EAST, RED FOX, REDSTONE, RICHEY, TULE CREEK, TULE CREEK SOUTH & VOLT									
East Poplar Gathering System	14,561	94,500			350			93,311	15,400
RAGGED POINT—									
Continental Pipeline Co.		6,093				6,093			
RED CREEK—									
Western Oil Transportation Co.		20,202						20,202	
RESERVE—Portal Pipeline Co.		10,636					10,636		
RUSH MOUNTAIN—									
Sinclair Refining Co.		3,373					3,373		
SHOTGUN CREEK—Truck			660				660		
SIDNEY—Truck			809					809	
SNYDER—Truck			357			357			
SOAP CREEK—Permian Corp.			3,153				3,153		
SPRING LAKE—									
Rock Island Oil & Ref. Co.			4,294				4,294		
SUMATRA & STENSVAD—									
Continental Pipeline Co.	567,129	78,614		1,378,616	(925)	57,290		1,418,092	549,902
TULE CREEK—									
Spruce Oil Corp.	2,767		39,456			37,075			5,148
Permian Corporation			3,061			3,061			
	2,767		42,517			40,136			5,148
WEED CREEK—									
Continental Pipeline Co.		3,128				3,128			
WHITLASH & WHITLASH WEST—									
Camerland Cardinal Corp.		13,117				12,077		1,040	
WOLF SPRINGS—									
Continental Pipeline Co.		4,647				4,647			
WILDCAT WELLS—Truck			100,451				100,451		
TOTALS	1,227,214	2,925,886	247,681	2,692,558	3,361	735,625	2,232,660	2,876,794	1,244,899

*Cabin Creek, Cupton, Fertile Prairie, Gas City, Little Beaver, Little Beaver East, Lookout Butte, Monarch, Pennel, Pine, Repeat. Richey, Richey Southwest, Weldon and Wills Creek South.

‡Transferred to Butte Pipeline Company.

BARRELS OF CRUDE OIL REFINED IN MONTANA
MONTH OF SEPTEMBER, 1970

Field	Big West Oil Co.	Continental Oil Co.	Diamond Asphalt Co.	Farmers Union	Humble Oil & Ref. Co.	Jet Fuel Refinery	Phillips Petr. Co.	Tesoro Petr. Corp.	Union Oil Co.	Total
Big Wall	----	10,550	----	----	----	----	----	----	----	10,550
Bowes	----	----	9,184	----	----	----	----	----	----	9,184
Cat Creek	----	2,986	----	14,190	----	2,511	----	----	----	19,687
Cut Bank	137,829	----	----	----	----	----	127,592	----	117,911	383,332
Delphia	----	----	----	----	----	360	----	----	----	360
Elk Basin	----	69,722	----	46,835	62,831	----	----	----	----	179,388
Flat Coulee	----	----	----	----	----	----	----	----	6,000	6,000
Fred & George Creek	76,662	----	----	----	----	----	----	----	----	76,662
Gage & Gage Southwest	----	----	----	----	----	29	----	----	----	29
Hibbard	----	----	----	----	----	435	----	----	----	435
Ivanhoe	----	7,157	----	----	----	----	----	----	----	7,157
Keg Coulee	----	3,560	----	11,563	----	----	----	----	----	15,123
Kelley	----	----	----	----	3,676	----	----	----	----	3,676
Kevin Sunburst	122,219	----	----	----	----	----	----	----	----	122,219
Lodge Grass	----	1,936	----	----	----	----	----	----	----	1,936
Mason Lake	----	665	----	----	----	----	----	----	----	665
Melstone	----	----	----	1,349	----	----	----	----	----	1,349
Pondera	----	----	----	----	----	----	24,609	----	----	24,609
Ragged Point	----	----	----	6,093	----	----	----	----	----	6,093
Sand Creek	----	----	----	----	----	414	----	----	----	414
Snyder	----	357	----	----	----	----	----	----	----	357
Sumatra & Stensvad	----	10,402	----	46,888	14,279	----	----	----	----	71,569
Tule Creek	----	----	----	----	----	----	----	64,130	----	64,130
Weed Creek	----	----	----	----	3,128	----	----	----	----	3,128
Whitlash	----	----	----	----	----	----	12,077	----	----	12,077
Wolf Springs	----	----	----	----	4,647	----	----	----	----	4,647
Total Montana Oil	336,710	107,335	9,184	126,918	88,561	3,749	164,278	64,130	123,911	1,024,776
Canadian Oil Imported	----	545,633	----	527,904	224,695	----	----	----	----	1,298,232
Wyoming Oil Imported	----	734,374	----	142,357	926,290	----	----	----	----	1,803,021
Total Montana, Canadian, and Wyoming Oil	336,710	1,387,342	9,184	797,179	1,239,546	3,749	164,278	64,130	123,911	4,126,029

AVERAGE BARRELS PER DAY

	Montana	Canada	Wyoming	Total
Year, 1969	25,966	13,237	71,981	111,184
September, 1969	23,337	12,732	84,741	120,810
September, 1970	34,159	43,274	60,101	137,534

PERCENTAGE OF CRUDE OIL REFINED

Montana	Canada	Wyoming
23.35%	11.91%	64.74%
19.32%	10.54%	70.14%
24.84%	31.46%	43.70%